

CLAIMS

What is claimed is:

- 5 1. A non-toxic, non-toxigenic, non-pathogenic recombinant *Fusarium* host cell of the section *Discolor* or a teleomorph or synonym thereof, comprising a nucleic acid sequence encoding a heterologous protein operably linked to a promoter.
- 10 2. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium bactridioides* cell.
- 15 3. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium cerealis* cell.
- 20 4. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium crookwellense* cell.
- 25 5. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium culmorum* cell.
- 30 6. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium graminearum* cell.
7. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium graminum* cell.
8. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium heterosporum* cell.
9. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium negundi* cell.
10. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium reticulatum* cell.
11. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium roseum* cell.
12. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sambucinum* cell.

13. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sарochroum* cell.

14. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium sulphureum* cell.

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15. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium trichothecioides* cell.

16. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium venenatum* cell.

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17. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium venenatum Nirenberg sp. nov* cell.

18. The host cell of claim 1 in which the *Fusarium* host cell is a *Fusarium toruloseum* cell.

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19. The host cell of claim 1 in which the *Fusarium* cell has the identifying characteristics of ATCC 20334.

20. A method for producing a heterologous protein which comprises
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according to claim 1; and

(a) culturing a non-toxic, non-toxigenic, non-pathogenic recombinant *Fusarium* host cell
claim 20 *B*
(b) isolating the protein.

add a *a*

add B2

ADD C1